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Copy for the Elected Office (EO/US) PATENT COOPERATION TREATY

02238
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	From th	e INTERNATIONAL BU	
PCT	То:		
NOTIFICATION OF THE RECORDING OF A CHANGE	Alph	WN, Michael, Stanley a & Omega e Croft	DEIVED N 0 3 2002 NTER 1600 2900
(PCT Rule 92bis.1 and Administrative Instructions, Section 422)	East Otter Devo		D 2900
Date of mailing (day/month/year) 17 January 2002 (17.01.02)		AOME-ON	
Applicant's or agent's file reference		IMPORTANT NOTI	FICATION
International application No. PCT/GB00/02238	i	nal filing date (day/month/ye une 2000 (08.06.00)	ar)
The following indications appeared on record concerning: X the applicant X the inventor	the ager		on representative
Name and Address LEONARD, Christopher, Jeremy 71 Shorton Valley Road Paignton Devon TQ3 1RE United Kingdom		State of Nationality GB Telephone No. Facsimile No.	State of Residence GB
		Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the X the person X the name X the add	ſ	the nationality	the residence
Name and Address BONDCO 897 LIMITED		State of Nationality GB	State of Residence GB
Town Quay House 7 Town Quay Southampton		Telephone No.	<u> </u>
Hampshire SO14 2PT United Kingdom		Facsimile No.	
		Teleprinter No.	
3. Further observations, if necessary: The applicant/inventor appearing in Box 1 has a appearing in Box 2. Box 1: applicant/inventor fo designated States except US.	ssigned a r US only	II his rights to the appl . Box 2: applicant for a	icant III
4. A copy of this notification has been sent to:			
X the receiving Office		the designated Offices	
the International Searching Authority the International Preliminary Examining Authority		X the elected Offices con other:	cerneu
	Authorized	d officer	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20. Switzerland		S. Buttay	

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

PA NT COOPERATION TREAT.

To:

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner

US Department of Commerce United States Patent and Trademark

Office, PCT

2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year)

15 February 2001 (15.02.01)

International application No. PCT/GB00/02238

International filing date (day/month/year)

08 June 2000 (08.06.00)

Applicant's or agent's file reference

Priority date (day/month/year)

09 June 1999 (09.06.99)

Applicant

LEONARD, Christopher, Jeremy

1.	The designated Office is hereby notified of its election made: X In the demand filed with the International Preliminary Examining Authority on:
	03 January 2001 (03.01.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Olivia TEFY

Facsimile No.: (41-22) 740.14.35 Telephone No.: (41-22) 338.83.38



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference			of International Search Report s, where applicable, item 5 below.
International application No.	International filing date (day/mi	onth/year) (Earliest) I	Priority Date (day/month/year)
PCT/GB 00/02238	08/06/2000		09/06/1999
Applicant LEONARD, CHRISTOPHER JERE	MY		
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International S ansmitted to the International Bur	searching Authority and is to eau.	ransmitted to the applicant
	of a total of4 a copy of each prior art documen	sheets. nt cited in this report.	
Basis of the report			
With regard to the language, the language in which it was filed, unl	international search was carried ess otherwise indicated under th	out on the basis of the interies item.	rnational application in the
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a ti	ranslation of the internation	nal application furnished to this
With regard to any nucleotide an was carried out on the basis of the contained in the internation.	d/or amino acid sequence disc e sequence listing : onal application in written form.	losed in the international ap	pplication, the international search
	rnational application in computer	readable form.	
	this Authority in written form.		
	this Authority in computer readbosequently furnished written sequ		by and the disclosure in the
international application a	s filed has been furnished.	ence listing does not go be	eyond the disclosure in the
the statement that the info furnished	ormation recorded in computer re	adable form is identical to t	the written sequence listing has been
2. X Certain claims were fou	nd unsearchable (See Box I).		
3. Unity of invention is lac	king (see Box II).		
4. With regard to the title ,			
X the text is approved as su	bmitted by the applicant.		
the text has been establis	hed by this Authority to read as fo	ollows:	
With regard to the abstract,			
The text is approved as su	bmitted by the applicant.		
the text has been establis within one month from the	hed, according to Rule 38.2(b), be date of mailing of this internation	y this Authority as it appea nal search report, submit co	r's in Box III. The applicant may, omments to this Authority.
6. The figure of the drawings to be publ			
as suggested by the appli	cant.		None of the figures.
because the applicant fail	ed to suggest a figure.		
because this figure better	characterizes the invention.		

INTERNATIONAL SEARCH REPORT



C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PC1) 00/02238
Category ^c	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
-	, , ,	ricievani to ciaim no.
X	DE 36 11 791 A (MICHEL WOLFGANG;KOLLNY JAN) 22 October 1987 (1987-10-22) the whole document	1-10
X	US 3 814 057 A (CALVERT C ET AL) 4 June 1974 (1974-06-04) the whole document	1,6-11
X	GB 874 297 A (RUPPRECHT K) 2 August 1961 (1961-08-02) the whole document	1,10,11
X	WO 92 00258 A (SILCOCK BRUCE) 9 January 1992 (1992-01-09) page 4, line 7 - line 12 the whole document	6-9,12
A	EP 0 093 195 A (LEMONNIER MONIQUE NEE PERRIER) 9 November 1983 (1983-11-09)	
A	EP 0 073 173 A (LEMONNIER MONIQUE NEE PERRIER) 2 March 1983 (1983-03-02)	
P,X	EP 1 006 124 A (ENTOPHARM CO LTD) 7 June 2000 (2000-06-07) the whole document	1-5

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INTERNATIONAL SEARCH REPORT

Information patent family members

PCT Application No 00/02238

	tent document in search report		Publication date	Patent family member(s)	Publication date
DE	19543513	Α	12-06-1997	NONE	
DE	4211745	Α	07-10-1993	NONE	
DE	4111782	Α	15-10-1992	NONE	
US	4405602	Α	20-09-1983	RO 74872 A DE 3134454 T EP 0043842 A GB 2079602 A WO 8102106 A	15-07-1982 20-01-1982
DE	3611791	Α	22-10-1987	NONE	
US	3814057	Α	04-06-1974	US 3716371 A	13-02-1973
GB	874297	Α		NONE	
WO	9200258	A	09-01-1992	AU 8199191 A GB 2263905 A	
EP	0093195	А	09-11-1983	FR 2525438 A DE 3279764 D JP 58187150 A NO 823550 A	28-10-1983 20-07-1989 01-11-1983 27-10-1983
EP	0073173	A	02-03-1983	FR 2511597 A DE 3280185 D JP 58088317 A	25-02-1983 05-07-1990 26-05-1983
ΕP	1006124	Α	07-06-2000	NONE	

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 14 December 2000 (14.12.2000)

(10) International Publication Number WO 00/74693 A3

- (51) International Patent Classification7: A61K 35/64. A23K 1/10, 1/14, 1/18, A23L 1/29, C02F 3/00, C05F 15/00, A01N 63/00, A61P 37/00
- (21) International Application Number: PCT/GB00/02238
- (22) International Filing Date: 8 June 2000 (08.06.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 9913267.2 9 June 1999 (09.06.1999) GB
- (71) Applicant and
- (72) Inventor: LEONARD, Christopher, Jeremy [GB/GB]; 71 Shorton Valley Road, Paignton, Devon TQ3 1RE (GB).
- (74) Agent: BROWN, Michael, Stanley; Alpha & Omega, Chine Croft, East Hill, Ottery St. Mary, Devon EX11 1PJ (GB).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- (88) Date of publication of the international search report: 28 June 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: IMMUNITY GENERATION

(57) Abstract: Immunity generation is effected by a method which includes the use of insect tissues and/or larval forms and derivatives of insects. The invention also provides a method of producing a food source which includes the use of insects and their larvae which act as carriers providing immunity generation as well as protein, energy and biologically active beneficial compounds.

INTERNATIONAL STRCH REPORT

∋⊓a. Application No PCT/GB 00/02238

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K35/64 A23K1/10

CO2F3/00

C05F15/00

A23K1/14 A01N63/00

A23K1/18 A61P37/00 A23L1/29

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A23L A23K A01N C05F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 195 43 513 A (CLEMENS ANDREAS ;SCHIRRMACHER MARTIN (DE)) 12 June 1997 (1997-06-12) the whole document	1-5
X	DE 42 11 745 A (BOERNER GMBH) 7 October 1993 (1993-10-07) the whole document	1-5
X	DE 41 11 782 A (BAYER GERHARD) 15 October 1992 (1992-10-15) the whole document	1-5
X	US 4 405 602 A (ILIES NICOLAE) 20 September 1983 (1983-09-20) the whole document	1-5
	-/	

X Further documents are listed in the continuation of box C.	Patent tamily members are listed in annex.
Special categories of cited documents :	
 "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed 	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
15 January 2001	19/01/2001
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Teyssier, B

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Inter Juan Application No PCT/GB 00/02238

		1 C 1 / GB 00 / 02238
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	DE 36 11 791 A (MICHEL WOLFGANG:KOLLNY JAN) 22 October 1987 (1987-10-22) the whole document	1-10
X	US 3 814 057 A (CALVERT C ET AL) 4 June 1974 (1974-06-04) the whole document	1,6-11
X	GB 874 297 A (RUPPRECHT K) 2 August 1961 (1961-08-02) the whole document	1,10,11
X	WO 92 00258 A (SILCOCK BRUCE) 9 January 1992 (1992-01-09) page 4, line 7 - line 12 the whole document	6-9,12
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A	EP 0 073 173 A (LEMONNIER MONIQUE NEE PERRIER) 2 March 1983 (1983-03-02)	
P,X	EP 1 006 124 A (ENTOPHARM CO LTD) 7 June 2000 (2000-06-07) the whole document	1-5

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...formation on patent family members

Inter July Application No PCT/GB 00/02238

	atent document d in search repor	t	Publication date	Patent tamity Publication member(s) Publication date
DE	19543513	Α	12-06-1997	NONE
DE	4211745	Α	07-10-1993	NONE
DE	4111782	Α	15-10-1992	NONE
US	4405602	A	20-09-1983	RO 74872 A 01-11-19 DE 3134454 T 15-07-19 EP 0043842 A 20-01-19 GB 2079602 A,B 27-01-19 WO 8102106 A 06-08-19
DE	3611791	Α	22-10-1987	NONE
US	3814057	Α	04-06-1974	US 3716371 A 13-02-19
GB	874297	Α		NONE
WO	9200258	A	09-01-1992	AU 8199191 A 23-01-19 GB 2263905 A,B 11-08-19
EP	0093195	А	09-11-1983	FR 2525438 A 28-10-19 DE 3279764 D 20-07-19 JP 58187150 A 01-11-19 NO 823550 A 27-10-19
EP	0073173	Α	02-03-1983	FR 2511597 A 25-02-19 DE 3280185 D 05-07-19 JP 58088317 A 26-05-19
EP	1006124	Α	07-06-2000	NONE

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 14 December 2000 (14.12.2000)

PCT

(10) International Publication Number WO 00/74693 A2

- (51) International Patent Classification?: A61K 35/64. A23K 1/10, 1/14, 1/18, A23L 1/29, C02F 3/00, C05F 15/00, A01N 63/00, A61P 37/00
- (21) International Application Number: PCT/GB00/02238
- (22) International Filing Date: 8 June 2000 (08.06.2000)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 9913267.2

9 June 1999 (09.06.1999) GE

- (71) Applicant and
- (72) Inventor: LEONARD, Christopher, Jeremy [GB/GB]; 71 Shorton Valley Road, Paignton, Devon TQ3 1RE (GB).
- (74) Agent: BROWN, Michael, Stanley; Alpha & Omega, Chine Croft, East Hill, Ottery St. Mary, Devon EX11 1PJ (GB).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

 Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title:

(54) Title: IMMUNITY GENERATION

(57) Abstract: Immunity generation is effected by a method which includes the use of insect tissues and/or larval forms and derivatives of insects. The invention also provides a method of producing a food source which includes the use of insects and their larvae which act as carriers providing immunity generation as well as protein, energy and biologically active beneficial compounds.

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REC'D 11 SEP 2001

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
	FOR FORTILE ACTION	Preliminary Examination Report (Form FCT//FE/A410)		
International application No.	International filing date (day/month	/year) Priority date (day/month/year)		
PCT/GB00/02238	08/06/2000	09/06/1999		
International Patent Classification (IPC) or	national classification and IPC			
A61K35/64				
Applicant				
LEONARD, Christopher Jeremy				
	· · · · · · · · · · · · · · · · · · ·	t by this International Proliminary Examining Authority		
 This international preliminary exa and is transmitted to the applican 	mination report has been prepared t according to Article 36.	by this International Preliminary Examining Authority		
and is transmitted to the applican	t decording to / whole co.			
2. This REPORT consists of a total	of 7 sheets, including this cover sl	neet.		
☐ This report is also accompan	ind by ANNEYES i.e. sheets of th	e description, claims and/or drawings which have		
been amended and are the b	asis for this report and/or sheets of	ontaining rectifications made before this Authority		
(see Rule 70.16 and Section	607 of the Administrative Instruction	ons under the PCT).		
	of all and a			
These annexes consist of a total	of sneets.			
This report contains indications re	elating to the following items:			
l ⊠ Basis of the report				
II ☐ Priority				
•	Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
IV Lack of unity of inver		,		
•		novelty, inventive step or industrial applicability;		
	tions suporting such statement	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
VI 🗵 Certain documents o	cited			
VII Certain defects in the	international application			
VIII Certain observations	on the international application			
Date of submission of the demand	Date of	completion of this report		
	001			
03/01/2001	001			
Name and mailing address of the internation	anal Authoriz	zed officer		
preliminary examining authority:	Authoriz	zed officer		
European Patent Office				
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5230		Antoli, B		
Fax: +49 89 2399 - 4465	· ·	one No. +49 89 2399 8476		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02238

I. Basis of the report

1.	1. With regard to the elements of the international application (Replacement sheets which have been furnithe receiving Office in response to an invitation under Article 14 are referred to in this report as "original and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description , pages:					
	1-1	8	as originally filed			
	Cla	ims, No.:				
	1-1	0	as originally filed			
2.			uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.			
	The	ese elements were a	evailable or furnished to this Authority in the following language: , which is:			
			ranslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of pu	blication of the international application (under Rule 48.3(b)).			
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule			
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international a international preliminary examination was carried out on the basis of the sequence listing:			leotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:			
		contained in the int	ernational application in written form.			
		filed together with t	he international application in computer readable form.			
		furnished subseque	ently to this Authority in written form.			
		furnished subseque	ently to this Authority in computer readable form.			
		The statement that the international ap	the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.			
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.			
4.	The	amendments have	resulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
5.		This report has bee considered to go be	en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02238

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

		τοροπ.)								
6.	Ade	ditional observations, if r	necessa	ıry:						
III	. No	n-establishment of opi	nion wi	th regard	d to novelty, inventive step and industrial applicability					
1.	. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:									
		the entire international application.								
	\boxtimes	claims Nos. 6-8.								
b∈	ecaus	se:								
the said international application, or the said claims Nos. relate to the following subject matter value of require an international preliminary examination (<i>specify</i>):										
the description, claims or drawings (<i>indicate particular elements below</i>) or said claims Nos. 6-unclear that no meaningful opinion could be formed (<i>specify</i>); see separate sheet										
		the claims, or said clain could be formed.	ns Nos.	are so ir	nadequately supported by the description that no meaningful opinion					
		no international search	report h	nas been	established for the said claims Nos					
2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:									
		the written form has not	been f	urnished (or does not comply with the standard.					
		the computer readable	form ha	s not bee	en furnished or does not comply with the standard.					
		soned statement unde tions and explanations			vith regard to novelty, inventive step or industrial applicability; ch statement					
1.	State	ement								
	Nov	elty (N)	Yes: No:	Claims Claims	4-5 1-3, 9-10					
	Inve	ntive step (IS)	Yes: No:	Claims Claims						
	Indu	strial applicability (IA)	Yes:	Claims	1-5, 9-10					



International application No. PCT/GB00/02238

No: Claims

2. Citations and explanations see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1. Independent claim 6 and its dependent claims 7-8 do not meet the requirements of Art. 6 PCT because their subject matter is not supported by the technical contents of the description.
- 1.1 Although not shown in the present application, there is evidence from the prior art (see D1 to D7 below) that insects and products thereof can be used as food sources and medicaments.
- 1.2 However, neither in the prior art nor in the present application, is there technical evidence supporting the effect alleged in the present claims 6-8; i.e. that biological waste (including sewage and animal offal) recycled using insects could be safely used as an immune-generating food or medicament.
- 2. In view of the aforementioned objection, no opinion can be established with regard to novelty, inventive step and industrial applicability of claims 6-8.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

3. Reference is made to the following documents:

D1: DE-A-195 43 513

D2: DE-A-42 11 745

D3: DE-A-41 11 782

D4: US-A-4 405 602

D5: DE-A-36 11 791

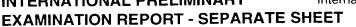
D6: US-A-3 814 057

D7: GB-A-874 297

4. Claims 1-3 and 9-10 do not meet te requirements of Art. 33(2) PCT because their

subject matter is not new (see below).

- 4.1 D1 (c. 1, I. 20-27) discloses a medicament obtained from mosquito saliva for treating HIV.
 - Thus, D1 destroys the novelty of the subject matter of the present claims 2 and 3 [Note that except for the "first medical use", a product is only defined by its components and not its intended use].
- 4.2 D2 (claims 1-2 and c. 1, I. 34) discloses the use of propolis (a natural product obtained from bees) as a medicament for inhibiting the release of inflammatory mediators such as allergens. This, implies the possible use of propolis to treat allergies.
 - Thus, D2 destroys the novelty of the subject matter of the present claims 1-3.
- 4.3 D3 (claim 1) discloses bee's resin dissolved in ethanol for use as oral immunostimulating agent (i.e. as a medicament).
 - Thus, D3 also prejudices the novelty of the subject matter of the present claims 1-3.
- 4.4 D4 (see claims 1, 7 and c. 3, l. 24) discloses a product prepared from bee larvae and its use in human nourishment and as poultry food.
 - Thus, D4 destroys the novelty of the subject matter of the present claims 9 and 10.
- 4.5 D5 (see claims 1-7 and c. 2, l. 24-29 and 31-34) discloses the use of insects, in particular fly-larvae, to prepare animal food, including poultry food, and the ability of said larvae to stimulate the immune system of animals.
 - Thus, D5 explicitly destroys the novelty of the subject matter of claims 9-10 and implicitly destroys the novelty of the subject matter of the present claims 1-3 (i.e. the use of said larvae as immunostimulating agent/medicament).



- 4.6 D6 (see c. 2, I. 21-29) discloses a product made from fly pupae and its use for feeding chicks and hens.
 - Thus, D6 prejudices the novelty of the subject matter of the present claims 9 and 10.
- 4.7 D7 (see claim 1) discloses a product comprising dried insects and its use to feed birds.
 - D7 is therefore prejudicial to the novelty of the subject matter of the present claim 9.
- Claims 4 and 5 meet the requirements of Art. 33(2) PCT because their subject 5. matter is formally new over the prior art cited in the search report.
- Claims 4-5 do however not meet the requirements of Art. 33(3) PCT, because the 6. formulation of any of the medicinal products disclosed in D1-D3 or D5 in a form suitable for injection or transcutaneous administration merely represent two of the several straightforward ways of administration from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill.
- Claims 1-5 and 9-10 satisfy the criterion set forth in Art. 33(4) PCT because their 7. subject matter is susceptible of industrial application.

Re Item VI

Certain documents cited

EP-A-1 006 124 (filing date: 02.12.98; publication date: 06.07.00). 8.

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PATENT COOPERATION TREATY

RECTD 1 1 SEP 2001

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	Γ		
	FOR FURTHER ACTIO		fication of Transmittal of International ary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/r	nonth/year)	Priority date (day/month/year)
PCT/GB00/02238	08/06/2000		09/06/1999
International Patent Classification (IPC) or nat A61K35/64	tional classification and IPC		RECEIVED
, no modification		1	MAR 1 3 2003
Applicant			TECH CENTER 1600 2900
LEONARD, Christopher Jeremy			
This international preliminary examinand is transmitted to the applicant and its transmitted to the applicant and	nation report has been prep ccording to Article 36.	ared by this In	ternational Preliminary Examining Authority
2. This REPORT consists of a total of	7 sheets, including this cov	er sheet.	T e
☐ This report is also accompanied been amended and are the basi (see Rule 70.16 and Section 60	is for this report and/or shee	ts containing	ion, claims and/or drawings which have rectifications made before this Authority the PCT).
These annexes consist of a total of	sheets.		
			, ≏ t a _k
			
3. This report contains indications relati	ing to the following items:	Ì	
I ⊠ Basis of the report	•	ŧ	
Ⅱ □ Priority			!
III 🛛 Non-establishment of op	pinion with regard to novelty	inventive ster	and industrial applicability
IV Lack of unity of invention		, 5 5 6 5	1
V 🛛 Reasoned statement und citations and explanation	der Article 35(2) with regard ns suporting such statemen	to novelty, inv	ventive step or industrial applicability;
VI 🛛 Certain documents cited		•	
VII Certain defects in the int			
VIII	the international application	i	
	-		
Date of submission of the demand	Date	of completion o	f this report
03/01/2001	i 07.0	9.2001.) /
Name and mailing address of the international preliminary examining authority:	Auth	orized officer	STOP SOES MILITARE
European Patent Office D-80298 Munich Tel +49 89 2399 - 0 Tx: 523656 6	Per Per	is Antoli, B	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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International application No. PCT/GB00/02238

ı	. в	asis of the report							
1. With regard to the elements of the international application (Replacement sheets which have bee the receiving Office in response to an invitation under Article 14 are referred to in this report as "or and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17) Description, pages:									
	1-	18	as originally filed						
	CI	aims, No.:							
	1-	10	as originally filed						
_			· · · · · · · · · · · · · · · · · · ·						
2	. Wi lan	th regard to the lang iguage in which the i	uage, all the elements marked above were available or fumished to this Authority in nternational application was filed, unless otherwise indicated under this item.	ı the					
	Th	ese elements were a	vailable or furnished to this Authority in the following language: , which is:						
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)						
		the language of publication of the international application (under Rule 23.1(b)).							
		55.2 and/or 55.3).	under	: Hule					
3.	Wit	h regard to any nucl	eotide and/or amino acid sequence disclared in the control of						
	inte	Vith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the sequence listing:							
		contained in the int	ernational application in written form.						
		filed together with the	ne international application in computer readable form.						
☐ furnished subsequently to this Authority in written form.									
		furnished subseque	ntly to this Authority in computer readable form.						
		The statement that	the subsequently furnished written sequence listing does not go beyond the disclosu plication as filed has been furnished.	ure in					
		The statement that listing has been furn	he information recorded in computer readable form is identical to the written sequentished.	nce					
4.	The	amendments have r	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
	_		V · · · · · · · · · · · · · · · · · · ·						
ò.		This report has been considered to go be	established as if (some of) the amendments had not been made, since they have by	een					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02238

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

(6. A	dditional observations, if	necess	ary:							
ı	II. N	on-establishment of op	inion w	∕ith regar	d to novel	ltv. inv	entive st	en and in	dustrial a	anliaahii:	
1	l. Th	ne questions whether the	or d to novelty, inventive step and industrial applicability on appears to be novel, to involve an inventive step (to be non- ve not been examined in respect of:								
		the entire internationa						,			
	Ø	claims Nos. 6-8.				•					
b	ecau	use:									
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (<i>specify</i>):									
	×	the description, claims or drawings (indicate particular elements below) or said claims Nos. 6-8 are so unclear that no meaningful opinion could be formed (specify): see separate sheet									ıre so
		the claims, or said clair could be formed.	ms Nos	. are so i	nadequate	ly supp	ported by	the descri	ption that r	no meanin	gful opinion
		no international search	(report	has been	establishe	d for t	ne said cla	aims Nos.	:		
2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:										
		the written form has not been furnished or does not comply with the standard.									
٧.	Rea cita	soned statement unde tions and explanations	er Articl	e 35(2) w orting suc	ith regard h stateme	to no	velty, inv	entive ste	ep or indu	strial appl	icability;
1.	Stat	ement				_				į	
	Nov	elty (N)	Yes: No:	Claims Claims	4-5 1-3, 9-10				,	ł	
	Inve	ntive step (IS)	Yes: No:	Claims Claims	4-5	Ŷ.	-		·• .		
	Indu	strial applicability (IA)	Yes:	Claims	1-5, 9-10				1		

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB00/02238

No: Claims

2. Citations and explanations see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- Independent claim 6 and its dependent claims 7-8 do not meet the requirements 1. of Art. 6 PCT because their subject matter is not supported by the technical contents of the description.
- 1.1 Although not shown in the present application, there is evidence from the prior art (see D1 to D7 below) that insects and products thereof can be used as food sources and medicaments.
- 1.2 However, neither in the prior art nor in the present application, is there technical evidence supporting the effect alleged in the present claims 6-8; i.e. that biological waste (including sewage and animal offal) recycled using insects could be safely used as an immune-generating food or medicament.
- In view of the aforementioned objection, no opinion can be established with regard to novelty, inventive step and industrial applicability of claims 6-8.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

3. Reference is made to the following documents:

D1: DE-A-195 43 513

D2: DE-A-42 11 745

D3: DE-A-41 11 782

D4: US-A-4 405 602

D5: DE-A-36 11 791

D6: US-A-3 814 057

D7: GB-A-874 297

Claims 1-3 and 9-10 do not meet te requirements of Art. 33(2) PCT because their

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subject matter is not new (see below).

4.1 D1 (c. 1, I. 20-27) discloses a medicament obtained from mosquito saliva for treating HIV.

Thus, D1 destroys the novelty of the subject matter of the present claims 2 and 3 [Note that except for the "first medical use", a product is only defined by its components and not its intended use].

4.2 D2 (claims 1-2 and c. 1, l. 34) discloses the use of propolis (a natural product obtained from bees) as a medicament for inhibiting the release of inflammatory mediators such as allergens. This, implies the possible use of propolis to treat allergies.

Thus, D2 destroys the novelty of the subject matter of the present claims 1-3.

4.3 D3 (claim 1) discloses bee's resin dissolved in ethanol for use as oral immunostimulating agent (i.e. as a medicament).

Thus, D3 also prejudices the novelty of the subject matter of the present claims 1-

4.4 D4 (see claims 1, 7 and c. 3, l. 24) discloses a product prepared from bee larvae and its use in human nourishment and as poultry food.

Thus, D4 destroys the novelty of the subject matter of the present claims 9 and 10.

4.5 D5 (see claims 1-7 and c. 2, I. 24-29 and 31-34) discloses the use of insects, in particular fly-larvae, to prepare animal food, including poultry food, and the ability of said larvae to stimulate the immune system of animals.

Thus, D5 explicitly destroys the novelty of the subject matter of claims 9-10 and implicitly destroys the novelty of the subject matter of the present claims 1-3 (i.e the use of said larvae as immunostimulating agent/medicament).

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- 4.6 D6 (see c. 2, I. 21-29) discloses a product made from fly pupae and its use for feeding chicks and hens.
 - Thus, D6 prejudices the novelty of the subject matter of the present claims 9 and 10.
- D7 (see claim 1) discloses a product comprising dried insects and its use to feed
 - D7 is therefore prejudicial to the novelty of the subject matter of the present claim
- Claims 4 and 5 meet the requirements of Art. 33(2) PCT because their subject matter is formally new over the prior art cited in the search report.
- Claims 4-5 do however not meet the requirements of Art. 33(3) PCT, because the formulation of any of the medicinal products disclosed in D1-D3 or D5 in a form suitable for injection or transcutaneous administration merely represent two of the several straightforward ways of administration from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill.
- Claims 1-5 and 9-10 satisfy the criterion set forth in Art. 33(4) PCT because their 7. subject matter is susceptible of industrial application.

Re Item VI

Certain documents cited

EP-A-1 006 124 (filing date: 02.12.98; publication date: 06.07.00). 8.